

bioactive agents, synthetic polymers and biomols., including antibodies, antigens, peptides, nucleic acids, enzymes, haptens, carbohydrates, and pharmaceutically active agents. The lanthanide metal complexes are luminescent. Also provided are probes incorporating the phthalamidyl ligands of the invention, methods using the ligands of the invention, and probes comprising the ligands of the invention. Provided are methods for determining whether a sample contains an enzyme, whether a compound alters an activity of an enzyme, detecting a nucleic acid target sequence, detecting amplification of a target sequence, and ascertaining whether a first nucleic acid and a second nucleic acid hybridize. Also provided are probes incorporating the phthalamidyl ligands of the invention and methods using the ligands of the invention and probes comprising the ligands of the invention. Also claimed is a microarray comprising the lanthanide complex, and said quencher being conjugated directly to a solid support or to a carrier mol. attached to the solid support, and a method for probing the microarray for the presence of a compound. Also provided are use of the complexes for radiation therapy, photodynamic therapy, as a component in an ink or dye, as a component of a substrate for transmission and amplification of light, for performing a fluorescence assay of an analyte, and for selective ion separation. Thus, the synthesis of bicappedTRENSAM, ligand II, is presented along with the preparation of its Eu and Tb complexes, both of which are luminescent. Other examples are provided.

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L1      19 S (TRIFUNCTION? OR MULTIFUNCTION?) AND (SUPPORT?) AND (QUENCH?)
L2      1 S L1 AND ANALYTE
L3      4 S (TRIFUNCTION? OR MULTIFUNCTION?) AND (SUPPORT?) AND (QUENCH?)
L4      447 S (SUPPORT?) AND (QUENCH?) AND (ANTIBOD? OR RECEPTOR?)
L5      15 S L4 AND ANALYTE?
L6      13 DUP REM L1 (6 DUPLICATES REMOVED)
L7      15 DUP REM L5 (0 DUPLICATES REMOVED)
L8      2 S (SUPPORT?) AND (QUENCH?) AND (ANTIBOD? OR RECEPTOR?) AND TRIP
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=> d hist full

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L1      19 SEA ABB=ON PLU=ON (TRIFUNCTION? OR MULTIFUNCTION?) AND
      (SUPPORT?) AND (QUENCH?)
L2      1 SEA ABB=ON PLU=ON L1 AND ANALYTE
L3      4 SEA ABB=ON PLU=ON (TRIFUNCTION? OR MULTIFUNCTION?) AND
      (SUPPORT?) AND (QUENCH?) AND (ANTIBOD? OR RECEPTOR?)
L4      447 SEA ABB=ON PLU=ON (SUPPORT?) AND (QUENCH?) AND (ANTIBOD? OR
      RECEPTOR?)
L5      15 SEA ABB=ON PLU=ON L4 AND ANALYTE?
L6      13 DUP REM L1 (6 DUPLICATES REMOVED)
L7      15 DUP REM L5 (0 DUPLICATES REMOVED)
      D L6 TI 1-13
L8      2 SEA ABB=ON PLU=ON (SUPPORT?) AND (QUENCH?) AND (ANTIBOD? OR
      RECEPTOR?) AND TRIPOD?
      D L8 TI 1-2
      D L7 TI 1-15
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D L6 IBIB ABS 3,5,11
D IBIB ABS L7 1,4-8
D L7 IBIB ABS 10-12

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